

**TORO**

Count on it.

# INFINITY™ 34/54 SERIES ROTORS



The New INFINITY 34/54 is Toro's Premium full-circle golf sprinkler series with SMART ACCESS®. The dual trajectory main nozzle provides exceptional nozzle performance at the 25° standard angle position and great performance in windy applications at the 15° low angle position. And the consistency of the constant velocity full circle drive ensures even water application across the coverage area every time you water.

## Features & Benefits

### Industry's Largest Nozzle Selection

Nozzles from 52' to 100'. Color coded for easy flow and radius identification and threaded from the front to simplify servicing.

### Five Activation types

- Standard solenoid
- Spike Guard™ solenoid
- Nickel plated Spike Guard solenoid
- DC Latching solenoid (DCLS)
- Integrated GDC module w/ DCLS
- Available on all INFINITY models!

### Constant Velocity Full Circle Drive

Ensures consistent rotation speeds when matched with station run times for even water application across the coverage area every time you water.

### Radius Reduction Screw for Fine Tuning

In combination with main nozzle sizing and trajectory adjustment the radius reduction screw can effectively reduce the sprinkler throw down to 30'.



### **SMART ACCESS**

*Provides top accessibility to all critical components.*

- No digging or unsightly turf repair scars
- No buried wire splices or ground faults
- Pilot valve removable with water "ON"
- Lower long term cost of ownership
- Customizable marker
- Replaceable cover if damaged
- Increased labor efficiency

## INF34 Series Performance Chart—25°

Front Nozzle Positions	Nozzle Set 31 (Yellow)		Nozzle Set 32 (Blue)		Nozzle Set 33 (Brown)		Nozzle Set 34 (Orange)		Nozzle Set 35 (Green)		Nozzle Set 36 (Gray)		Nozzle Set 37 (Black)	
	102-0725		102-7001		102-0727		102-7002		102-6908		102-0730		102-4261	
	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Brown
	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-6883
	Yellow	Blue	Yellow	Orange	Yellow	Red	Yellow	Beige	Yellow	Beige	Yellow	Red	Yellow	Gray
Back Nozzle Positions	102-6937	102-2925	102-6937	102-2926	102-6937	102-2928	102-6937	102-2929	102-6937	102-2929	102-6937	102-6944	102-6937	102-6945
PSI	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM
50	57	13.0	58	15.5	64	21.9	68	24.4	72	28.1	76	32.2	—	—
65	58	14.6	60	18.0	68	24.4	72	28.1	76	32.2	80	38.2	85	41.5
80	60	16.2	63	20.5	72	26.9	76	31.1	80	35.6	83	43.4	91	46.9
100	62	17.9	66	23.4	75	29.8	79	34.9	84	49.3	88	43.4	91	46.9

## INF34 Series Performance Chart—15°

PSI	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM
50	52	12.9	53	15.6	60	21.7	62	25.5	—	—	—	—	—	—
65	53	14.4	54	17.1	61	24.2	64	28.0	67	32.1	—	—	—	—
80	56	16.0	57	19.0	65	26.6	69	31.0	73	35.5	76	38.0	77	41.3
100	57	17.5	59	20.5	67	29.5	71	33.9	75	38.4	80	43.1	81	46.8
Stator	102-6929 Blue								102-1940 White					
Conversions	INF34-3134								INF34-3537					

Not recommended at these pressures. Radius shown in feet.  
 Toro recommends the use of a 1/4" swing joint at flows over 25-GPM (95-LPM).  
 Sprinkler radius data collected in Toro's zero wind test facility per ASAE standard 5398.1.  
 Actual site conditions must be considered when selecting the appropriate nozzle.  
 All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

## INF34 Nozzle Apex

Pressure	Nozzle	Apex at 15°	Apex at 25°
65 PSI	31	6' @ 51'	13' @ 54'
	32	6' @ 51'	11' @ 64'
	33	7' @ 59'	13' @ 68'
	34	8' @ 63'	15' @ 74'
	35	9' @ 66'	15' @ 76'
80 PSI	36	8' @ 75'	18' @ 83'
	37	9' @ 74'	19' @ 82'

# INFINITY™ 34/54 SERIES ROTORS



## Main Nozzle Adapter

A wide assortment of intermediate and inner nozzles for use in the main nozzle adapter and back nozzle position provide unmatched nozzle flexibility.

### INF54 Series Performance Chart—25°

Front Nozzle Positions	Nozzle Set 51 (Yellow)	Nozzle Set 52 (Blue)	Nozzle Set 53 (Brown)	Nozzle Set 54 (Orange)	Nozzle Set 55 (Green)	Nozzle Set 56 (Gray)	Nozzle Set 57 (Black)	Nozzle Set 58 (Red)	Nozzle Set 59 (Beige)
	102-0725	102-7001	102-0727	102-7002	102-6908	102-0730	102-4261	102-4260	102-4259
	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug	Red Plug
	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335	102-4335
Back Nozzle Positions	Yellow	Blue	Yellow	Orange	Yellow	Red	Yellow	Beige	Yellow
	102-6937	102-2925	102-6937	102-2926	102-6937	102-2928	102-6937	102-2929	102-6937
	Yellow	Blue	Yellow	Orange	Yellow	Red	Yellow	Beige	Yellow
	102-6944	102-6937	102-6944	102-6937	102-6944	102-6937	102-6945	102-6937	102-6945
PSI	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius
50	58	13.2	59	15.7	64	22.0	70	26.2	—
65	60	14.8	61	17.5	68	24.8	74	29.3	79
80	61	16.4	64	20.0	72	27.6	78	32.6	83
100	63	18.1	67	23.6	75	30.4	81	36.7	87

### INF54 Series Performance Chart—15°

PSI	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM	Radius	GPM
50	52	13.2	53	15.6	61	22.0	65	26.0	—	—	—	—	—	—	—	—	—	—
65	53	14.8	54	17.1	63	24.8	67	29.2	69	34.1	—	—	—	—	—	—	—	—
80	56	16.4	58	19.0	68	27.6	72	32.5	75	37.8	79	40.4	81	44.6	85	49.9	87	55.3
100	58	18.1	60	20.5	71	30.4	75	36.4	79	42.3	84	45.5	87	49.9	89	55.1	94	61.5
Stator	102-6929 Blue						102-1940 White						102-1941 White					
Conversions	INF54-5154						INF54-5558						INF54-59					

■ Not recommended at these pressures. Radius shown in feet.

Toro recommends the use of a 1 1/2" swing joint at flows over 25-GPM (95-LPM).

Sprinkler radius data collected in Toro's zero wind test facility per ASAE standard S398.1.

Actual site conditions must be considered when selecting the appropriate nozzle.

All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

### INF54 Nozzle Apex

Pressure	Nozzle	Apex at 15°	Apex at 25°
65 PSI	51	6' @ 51'	13' @ 54'
	52	6' @ 51'	11' @ 64'
	53	7' @ 59'	13' @ 68'
	54	8' @ 63'	15' @ 74'
	55	9' @ 66'	15' @ 76'
80 PSI	56	8' @ 75'	18' @ 83'
	57	9' @ 74'	19' @ 82'
	58	10' @ 82'	18' @ 87'
	59	11' @ 81'	21' @ 91'

**Main Nozzle Adapter Performance Charts****Intermediate Nozzle Performance Charts**

102-2929 Beige		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
PSI	BAR	GPM	lpm	Feet	Meters										
50	3.4	8.1	30.7	53	17.4	52	17.1	50	16.4	48	15.7	45	14.8	42	13.8
60	4.1	8.9	33.7	57	18.7	56	18.4	53	17.4	51	16.7	47	15.4	45	14.8
65	4.5	9.3	35.2	58	19.0	56	18.4	54	17.7	51	16.7	49	16.1	46	15.1
70	4.8	9.6	36.3	59	19.4	57	18.7	56	18.4	53	17.4	50	16.4	48	15.7
80	5.5	10.3	39.0	61	20.0	60	19.7	58	19.0	56	18.4	53	17.4	50	16.4
90	6.2	10.9	41.3	63	20.7	61	20.0	59	19.4	57	18.7	54	17.7	51	16.7
100	6.9	11.5	43.5	65	21.3	63	20.7	60	19.7	58	19.0	55	18.0	51	16.7

102-2928 Red		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
PSI	BAR	GPM	lpm	Feet	Meters										
50	3.4	6.3	23.8	53	17.4	51	16.7	48	15.7	46	15.1	43	14.1	40	13.1
60	4.1	7.0	26.5	55	18.0	53	17.4	50	16.4	48	15.7	45	14.8	42	13.8
65	4.5	7.2	27.3	56	18.4	54	17.7	52	17.1	49	16.1	47	15.4	44	14.4
70	4.8	7.5	28.4	57	18.7	55	18.0	53	17.4	51	16.7	49	16.1	46	15.1
80	5.5	8.0	30.3	59	19.4	58	19.0	56	18.4	54	17.7	52	17.1	49	16.1
90	6.2	8.5	32.2	60	19.7	58	19.0	57	18.7	55	18.0	53	17.4	50	16.4
100	6.9	9.0	34.1	61	20.0	59	19.4	57	18.7	55	18.0	53	17.4	50	16.4

102-2927 Gray		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
PSI	BAR	GPM	lpm	Feet	Meters										
50	3.4	5.0	18.9	50	16.4	48	15.7	46	15.1	44	14.4	41	13.5	38	12.5
60	4.1	5.5	20.8	52	17.1	50	16.4	48	15.7	46	15.1	43	14.1	40	13.1
65	4.5	5.7	21.6	53	17.4	51	16.7	49	16.1	46	15.1	44	14.4	41	13.5
70	4.8	5.9	22.3	53	17.4	51	16.7	49	16.1	47	15.4	45	14.8	42	13.8
80	5.5	6.3	23.8	54	17.7	52	17.1	50	16.4	48	15.7	46	15.1	43	14.1
90	6.2	6.7	25.4	55	18.0	53	17.4	52	17.1	50	16.4	48	15.7	45	14.8
100	6.9	7.1	26.9	55	18.0	54	17.7	53	17.4	52	17.1	50	16.4	46	15.1

102-2926 Orange		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
PSI	BAR	GPM	lpm	Feet	Meters										
50	3.4	4.3	16.3	48	15.7	46	15.1	44	14.4	42	13.8	39	12.8	35	11.5
60	4.1	4.7	17.8	50	16.4	48	15.7	46	15.1	44	14.4	41	13.5	38	12.5
65	4.5	4.9	18.5	51	16.7	49	16.1	47	15.4	45	14.8	42	13.8	39	12.8
70	4.8	5.1	19.3	51	16.7	50	16.4	48	15.7	46	15.1	43	14.1	40	13.1
80	5.5	5.4	20.4	52	17.1	51	16.7	50	16.4	48	15.7	45	14.8	42	13.8
90	6.2	5.8	22.0	53	17.4	52	17.1	51	16.7	49	16.1	47	15.4	44	14.4
100	6.9	6.1	23.1	54	17.7	53	17.4	52	17.1	50	16.4	48	15.7	45	14.8

102-2925 Blue		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
PSI	BAR	GPM	lpm	Feet	Meters										
50	3.4	2.7	10.2	42	13.8	41	13.5	39	12.8	38	12.5	36	11.8	34	11.2
60	4.1	3.0	11.4	43	14.1	42	13.8	40	13.1	39	12.8	37	12.1	35	11.5
65	4.5	3.2	12.1	43	14.1	42	13.8	40	13.1	39	12.8	37	12.1	35	11.5
70	4.8	3.3	12.5	44	14.4	42	13.8	41	13.5	39	12.8	38	12.5	36	11.8
80	5.5	3.5	13.2	44	14.4	43	14.1	41	13.5	40	13.1	38	12.5	36	11.8
90	6.2	3.7	14.0	45	14.8	44	14.4	42	13.8	41	13.5	39	12.8	37	12.1
100	6.9	3.9	14.8	45	14.8	44	14.4	43	14.1	42	13.8	40	13.1	38	12.5

# INFINITY™ 34/54 SERIES ROTORS

## Main Nozzle Adapter Performance Charts

### Intermediate Nozzle Performance Charts

102-6885 Green		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
PSI	BAR	GPM	lpm	Feet	Meters										
50	3.4	5.4	20.4	51	16.7	50	16.4	48	15.7	45	14.8	42	13.8	39	12.8
60	4.1	5.9	22.3	52	17.1	51	16.7	49	16.1	46	15.1	43	14.1	41	13.5
65	4.5	6.1	23.1	52	17.1	51	16.7	50	16.4	47	15.4	44	14.4	42	13.8
70	4.8	6.3	23.8	53	17.4	52	17.1	50	16.4	47	15.4	44	14.4	42	13.8
80	5.5	6.7	25.4	53	17.4	52	17.1	51	16.7	48	15.7	45	14.8	43	14.1
90	6.2	7.1	26.9	54	17.7	53	17.4	52	17.1	50	16.4	47	15.4	45	14.8
100	6.9	7.4	28.0	55	18.0	55	18.0	54	17.7	52	17.1	49	16.1	47	15.4

102-6884 Yellow		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
PSI	BAR	GPM	lpm	Feet	Meters										
50	3.4	4.1	15.5	48	15.7	47	15.4	45	14.8	41	13.5	38	12.5	35	11.5
60	4.1	4.5	17.0	49	16.1	48	15.7	47	15.4	44	14.4	41	13.5	38	12.5
65	4.5	4.7	17.8	50	16.4	49	16.1	48	15.7	45	14.8	42	13.8	39	12.8
70	4.8	4.8	18.2	50	16.4	49	16.1	48	15.7	45	14.8	43	14.1	40	13.1
80	5.5	5.1	19.3	51	16.7	50	16.4	49	16.1	47	15.4	44	14.4	41	13.5
90	6.2	5.4	20.4	53	17.4	52	17.1	50	16.4	48	15.7	45	14.8	42	13.8
100	6.9	5.8	22.0	54	17.7	53	17.4	51	16.7	49	16.1	46	15.1	43	14.1

102-6883 Brown		Trajectory		30°		25°		20°		15°		10°		7°	
Pressure		Flow		Radius		Radius		Radius		Radius		Radius		Radius	
PSI	BAR	GPM	lpm	Feet	Meters										
50	3.4	2.4	9.1	41	13.5	40	13.1	38	12.5	36	11.8	33	10.8	30	9.8
60	4.1	2.6	9.8	43	14.1	42	13.8	40	13.1	38	12.5	36	11.8	33	10.8
65	4.5	2.7	10.2	44	14.4	42	13.8	41	13.5	39	12.8	37	12.1	34	11.2
70	4.8	2.8	10.6	45	14.8	43	14.1	42	13.8	40	13.1	38	12.5	35	11.5
80	5.5	3.0	11.4	46	15.1	45	14.8	43	14.1	41	13.5	40	13.1	36	11.8
90	6.2	3.2	12.1	46	15.1	45	14.8	44	14.4	42	13.8	41	13.5	37	12.1
100	6.9	3.4	12.9	46	15.1	45	14.8	44	14.4	43	14.1	41	13.5	38	12.5

## Back Nozzle Performance Data

Nozzles				65 PSI		80 PSI			
Part #	Description		Color	Radius	GPM	Radius	GPM	Profile	
102-6937	Inner Nozzle w/ Yellow Restrictor		Yel/Yel	29	3.7	30	4.1		
102-6531	Inner Nozzle w/ White Restrictor		Grn/Wht	31	4.3	33	4.6		
102-6883	Intermediate Nozzle		Brown	38	2.8	38	2.8		
102-6884	Intermediate Nozzle		Yellow	41	4.1	43	4.5		
102-6885	Intermediate Nozzle		Green	42	5.4	45	6.0		
102-2925	Intermediate Nozzle		Blue	40	2.8	42	3.2		
102-2926	Intermediate Nozzle		Orange	44	4.3	45	4.8		
102-2927	Intermediate Nozzle		Gray	46	5.1	47	5.4		
102-2928	Intermediate Nozzle		Red	48	6.5	50	7.0		
102-2929	Intermediate Nozzle		Beige	51	8.1	53	9.1		

Main Nozzle Adaptor  
P/N 118-1521



## INF34 Conversion Upgrades

Models	Description
• INF34-3134	INF34 w/31-34 Nozzles (33 Nozzle Installed)
• INF34-3537	INF34 w/35-37 Nozzles (35 Nozzle Installed)
• INF34-3134E	INF34 w/31-34 Nozzles (33 Nozzle Installed), Effluent
• INF34-3537E	INF34 w/35-37 Nozzles (35 Nozzle Installed), Effluent



## INF54 Conversion Upgrades

Models	Description
• INF54-5154	INF54 w/51-54 Nozzles (53 Nozzle Installed)
• INF54-5558	INF54 w/55-58 Nozzles (55 Nozzle Installed)
• INF54-59	INF54 w/ 59 Nozzle installed
• INF54-5154E	INF54 w/51-54 Nozzles (53 Nozzle Installed), Effluent
• INF54-5558E	INF54 w/55-58 Nozzles (55 Nozzle Installed), Effluent
• INF54-59E	INF54 w/ 59 Nozzle installed, Effluent, 690 Adapter allows you to upgrade any 690 with INF54 conversions
• 102-5011	



**Dual Trajectory - 25° or 15°**  
*Provides two selections for the main nozzle trajectory; the 25 degree setting provides maximum distance of throw and the 15 degree setting provides improved wind performance, radius reduction and obstacle avoidance.*

## Features

- Dual Trajectory adjustment on main nozzle - 25° or 15°
- Constant velocity full circle drive
- Radius reduction screw can effectively reduce the sprinkler throw down to 30'

## Operating Specifications

- Inlet:
  - INF34: 1" ACME
  - INF54: 1½" ACME
- Radius:
  - INF34: 52' – 91'
  - INF54: 52' – 99'
- Flow Rate:
  - INF34: 13.0 – 46.9 GPM
  - INF54: 13.2 - 61.8 GPM
- Precipitation Rates:
  - INF34: Minimum - .33"/hr; Maximum - .55"/hr
  - INF54: Minimum - .33"/hr; Maximum - .61"/hr
- Pilot Valve: Selectable at 50, 65, 80 and 100 psi
- Recommended Operating Pressure Range: 65-100 psi (maximum-150 psi and minimum-40 psi)
- Activation types – Electric Valve-in-Head:
  - Standard Solenoid:
    - 24 VAC, 50/60 Hz
    - Inrush: 0.30 A
    - Holding 0.20 A
  - Spike Guard Solenoid:
    - 24 VAC, 50/60 Hz
    - Inrush: 0.12 A
    - Holding 0.10 A
  - Nickel-Plated Spike Guard Solenoid:
    - 24 VAC, 50/60 Hz
    - Inrush: 0.12 A
    - Holding 0.10 A
  - DC Latching Solenoid (DCLS):
    - Momentary low voltage pulse
  - Integrated GDC Module w/DCLS:
    - Momentary low voltage pulse
- Trajectory: 25° or 15°

## Dimensions

- SMART ACCESS® Cover and Compartment Diameter:
  - INF34: 7<sup>5</sup>/<sub>8</sub>"
  - INF54: 7<sup>5</sup>/<sub>8</sub>"
- Body height:
  - INF34: 10"
  - INF54: 11<sup>3</sup>/<sub>8</sub>"
- Weight:
  - INF34: 4.22 lbs.
  - INF54: 5.04 lbs.
- Pop-up height to nozzle: 3<sup>1</sup>/<sub>4</sub>"

## Warranty

- Three years
- Five years when installed with Toro Swing Joints

## Specifying Information—INF34 &amp; INF54

## INFX4-XXX-XX

Body Inlet	Arc	Nozzle	Pressure Regulation*	Activation Type	Optional
<b>INFX</b>	<b>4</b>	<b>XX</b>	<b>X</b>	<b>X</b>	<b>X</b>
3—1"	4—Full Circle	INF34—31, 32, 33, 34, 35, 36, 37 INF54—51, 52, 53, 54, 55, 56, 57, 58, 59	6—65 psi 8—80 psi 1—100 psi	1—Standard Solenoid 2—Spike Guard™ Solenoid 3—Nickel-plated Spike Guard Solenoid 4—DC Latching Solenoid (DCLS) 5—Integrated GDC Module w/DCLS	7—Effluent

Example: When specifying an INF34 Series Sprinkler with #34 nozzle, pressure regulation at 65 psi and Spike Guard you would specify: INF34-346-2

\* All sprinklers are equipped with the selectable pilot valve that allows settings at 50, 65, 80 and 100 psi.

Note: Not all models available.